

## **Abstract**

Methods and systems for analyzing blood glucose readings comprising the steps of obtaining a plurality of blood glucose readings taken within a predetermined time category and time period, performing first calculations on said readings based on a predetermined normal range of glycemia in a first analysis and selecting and applying a pattern label having predetermined criteria to the plurality of blood glucose readings by comparing the results of the first calculations to the pattern label criteria. The invention may also include the steps of performing second calculations on said readings based on predetermined thresholds for severe hyperglycemia and severe hypoglycemia and selecting and appending a severity suffix having predetermined severity criteria to said pattern label by comparing the results of the second calculations to the severity criteria as well as performing third calculations on said readings based on a predetermined normal range of glycemia and selecting and appending a minor comment having minor comment criteria to said pattern label by comparing the results of the third calculations to the comment criteria.